

**IN THE CLAIMS:**

Please AMEND claims 1, 4-30, and 32-34;

Please ADD claims 37-49; and

Please CANCEL claims 31 and 35-36 without prejudice or disclaimer, as shown below.

1. (Currently Amended) A method ~~of providing access via a first network to a service facilitated by a second network, said method comprising the steps of:~~

- a)—using an authentication message to signal a service selection information via ~~asaid~~ first network to an authentication server ~~means of~~ asaid second network, the service selection information indicating an access point; and
- b)—using said service selection information to connect to at least one services provided over saidan access point indicated by said service selection information.

2. (Previously Presented) A method according to claim 1, wherein said first network is a wireless local area network.

3. (Previously Presented) A method according to claim 1, wherein said second network is a cellular packet-switched network.

4. (Currently Amended) A method according to claim 3, wherein said cellular packet-switched network is a general packet radio service~~GPRS~~ network.

5. (Currently Amended) A method according to claim 1, wherein said authentication message is an extensible authentication protocol~~EAP~~ message.

6. (Currently Amended) A method according to claim 5, wherein said extensible authentication protocol~~EAP~~ message is an extensible authentication protocol subscriber identity module~~EAP-SIM~~ or extensible authentication protocol authentication and key agreement~~EAP-AKA~~ message.

7. (Currently Amended) A method according to claim 5, wherein said authentication message is an extensible authentication protocol~~EAP~~ ~~Echallenge Rresponse~~ message.

8. (Currently Amended) A method according to claim 1, wherein said service selection information comprises at least one access point name~~APN~~ parameter.

9. (Currently Amended) A method according to claim 8, wherein said at least one access point name~~APN~~ parameter comprises an access point name~~APN~~, a username and a password.

10. (Currently Amended) A method according to claim 87, wherein said access point nameAPN parameter is encrypted in said authentication message.

11. (Currently Amended) A method according to claim 9, wherein said at least one access point name of said APN parameters is encrypted so that said at least one access point name parameter it can only be decrypted at at the network defined by the access point nameAPN.

12. (Currently Amended) An apparatus, comprising ~~authentication server device for providing an authentication mechanism, said authentication server being configured:~~

- a) — a processor configured to extract from a received authentication message a service selection information to for selecting a service; and
- b) — wherein the processor is configured to use said service selection information to for establishing a connection to services provided over an access point indicated by said service selection information.

13. (Currently Amended) The apparatus ~~An authentication server~~ according to claim 12, wherein said received authentication message mechanism is based on an extensible authentication ~~EAP~~ protocol.

14. (Currently Amended) ~~The apparatus~~~~An authentication server~~ according to claim 13, wherein said received authentication message is an extensible authentication protocol~~EAP~~ challenge response message.

15. (Currently Amended) ~~The apparatus~~~~An authentication server~~ according to claim 12, wherein said processor~~authentication server~~ is a standalone wireless local area network~~WLAN~~ authentication server.

16. (Currently Amended) ~~The apparatus~~~~An authentication server~~ according to claim 12, wherein said processor~~authentication server~~ is a gateway general packet radio service support node~~GGSN~~.

17. (Currently Amended) ~~The apparatus~~~~An authentication server device~~ according to claim 12, wherein said service selection information comprises at least one access point name~~APN~~ parameter.

18. (Currently Amended) ~~The apparatus~~~~An authentication server~~ according to claim 17, wherein said access point name~~APN~~ parameter is encrypted in said authentication message.

19. (Currently Amended) The apparatus~~An authentication server~~ according to claim 17, wherein said at least one access point name of said APN parameters is decrypted in said processor~~authentication server~~.

20. (Currently Amended) The apparatus~~An authentication server~~ according to claim 17, wherein said at least one access point name of said APN parameter is forwarded by the processor~~authentication server~~ to said access point in an encrypted manner.

21. (Currently Amended) An apparatus~~A terminal device for providing access to a network service, comprising:~~

a processor~~said device being~~ configured to set in an authentication message a service selection information regarding~~for~~ selection of~~ing~~ as~~id~~ network service.

22. (Currently Amended) The apparatus~~A device~~ according to claim 21, wherein said authentication message is an extensible authentication protocol~~EAP~~ message.

23. (Currently Amended) The apparatus~~A device~~ according to claim 22, wherein said extensible authentication protocol~~EAP~~ message is an extensible authentication protocol~~EAP~~ Challenge Response message.

24. (Currently Amended) The apparatusA~~A~~ device according to claim 23, wherein said extensible authentication protocol~~EAP~~ Echallenge Response message is an extensible authentication protocol subscriber identity module~~EAP-SIM~~ or extensible authentication protocol authentication and key agreement~~EAP-AKA~~ Echallenge Response message.

25. (Currently Amended) The apparatusA~~A~~ device according to claim 21, wherein said service selection information comprises at least one access point name~~APN~~ parameter.

26. (Currently Amended) The apparatusA~~A~~ device according to claim 21, wherein said service is a general packet radio~~GPRS~~ service.

27. (Currently Amended) ~~A~~For providing access from a first network to a service of a second network, ~~said system,~~ comprising:

a terminal device ~~said terminal device~~ configured to provide access to a network service, said terminal device configured to set in an authentication message a service selection information regarding~~for~~ selection of~~ing~~ said network service; and

an authentication server device connected to at~~the~~ second network, said authentication server device configured to~~for~~ provide~~ing~~ an authentication mechanism, said authentication server device ~~being~~ configured to extract from a received

authentication message said a service selection information to for selecting said a service, and to use said service selection information to for establishing a connection to services provided over an access point indicated by said service selection information.

28. (Currently Amended) A method, ~~of providing an authentication mechanism,~~ ~~said method comprising the steps of:~~

- a)—extracting from a received authentication message a service selection information to for selecting a service; and
- b)—using said service selection information to for establishing a connection to services provided over an access point indicated by said service selection information.

29. (Currently Amended) A method, ~~of providing access to a network service,~~ ~~said method comprising:~~

~~the step of setting in an authentication message a service selection information regarding for selection of ing asaid network service at a terminal device.~~

30. (Currently Amended) A computer-readable storage medium having ~~computer-executable components, comprising: program product embodied on a computer readable medium comprising code means configured to produce the steps of claim 1 when run on a computer device~~

using an authentication message to signal a service selection information via a first network to a second network; and

using said service selection information to connect to services provided over an access point indicated by said service selection information.

31. (Cancelled)

32. (Currently Amended) A computer-readable storage medium having stored thereon a data structure, comprising: ~~of an authentication message, said data structure being configured to include~~ a service selection information ~~to~~for selecting a service.

33. (Currently Amended) A computer-readable storage medium having computer-executable components, comprising: ~~program product embodied on a computer readable medium, said computer program product comprising code means configured to produce the steps of claim 28 when run on a computer device extracting from a received authentication message a service selection information to select a service; and~~

using said service selection information to establish a connection to services provided over an access point indicated by said service selection information.

34. (Currently Amended) A computer-readable storage medium having computer-executable components, comprising: program product embodied on a computer readable medium, said computer program product comprising code means configured to produce the steps of claim 29 when run on a computer device  
setting in an authentication message a service selection information regarding selection of a network service.

35-36 (Cancelled)

37. (New) The method according to claim 28, wherein said received authentication message is based on an extensible authentication protocol.

38. (New) The method according to claim 37, wherein said received authentication message is an extensible authentication protocol challenge response message.

39. (New) The method according to claim 28, wherein said service selection information comprises at least one access point name parameter.

40. (New) The method according to claim 39, wherein said access point name parameter is encrypted in said authentication message.

41. (New) The method according to claim 39, further comprising:  
decrypting said at least one access point name parameter.

42. (New) The method according to claim 39, further comprising:  
forwarding said at least one access point name parameter to said access point in an  
encrypted manner.

43. (New) The method according to claim 29, wherein said authentication  
message is an extensible authentication protocol message.

44. (New) The method according to claim 43, wherein said extensible  
authentication protocol message is an extensible authentication protocol challenge  
response message.

45. (New) The method according to claim 44, wherein said extensible  
authentication protocol challenge response message is an extensible authentication  
protocol subscriber identity module or extensible authentication protocol authentication  
and key agreement challenge response message.

46. (New) The method according to claim 29, wherein said service selection information comprises at least one access point name parameter.

47. (New) The method according to claim 29, wherein said service is a general packet radio service.

48. (New) An apparatus, comprising:

extracting means for extracting from a received authentication message a service selection information to select a service; and

controlling means for using said service selection information to establish a connection to services provided over an access point indicated by said service selection information.

49. (New) An apparatus, comprising:

setting means for setting in an authentication message a service selection information regarding selection of a network service; and

sending means for sending the authentication message.